



# SAFETY DATA SHEET

7301 CombiColor Thinner

## 1. Identification of the preparation and of the company

**Product name and/or code** : 7301 CombiColor Thinner  
**Product use** : Solvent for lacquers and paints.  
 Andrews Coatings Ltd. Carver Building, Littles Lane  
**Chemical product name** : Wolverhampton, West Midlands, WV1 1JY  
**Manufacturer** : Telephone Number: 01902 429190, Fax Number: 01902 426574  
**Emergency phone:** : Email: sales@andrewscoatings.co.uk

## 2. Composition/information on ingredients

Substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Directive 67/548/EEC.

Chemical name*	CAS no.	%	EC nr.	Classification
<b>United Kingdom (UK)</b>				
Xylene (mixture of isomeres)	1330-20-7	25 - 50	215-535-7	R10 Xn; R20/21 Xi; R38
Naphtha (petroleum), hydrotreated heavy	64742-48-9	25 - 50	265-150-3	R10 Xn; R65 R66
Solvent naphtha (petroleum), light aromatic	64742-95-6	5 - 10	265-199-0	R10 Xn; R65 Xi; R37 R66 N; R51/53
1,2,4-Trimethylbenzene	95-63-6	2.5 - 5	202-436-9	R10 Xn; R20 Xi; R36/37/38 N; R51/53
Mesitylene	108-67-8	0 - 1	203-604-4	R10 Xi; R37 N; R51/53
Isopropylbenzene (cumene)	98-82-8	0 - 1	202-704-5	R10 Xn; R65 Xi; R37 N; R51/53
Octane	111-65-9	0 - 1	203-892-1	F; R11 Xn; R65 Xi; R38 R67 N; R50/53
See section 16 for the full text of the R-phrases declared above				

Occupational exposure limits, if available, are listed in section 8.

## 3. Hazards identification

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

**Classification** : R10  
 Xn; R20/21, R65  
 Xi; R38  
 R52/53  
**Physical/chemical hazards** : Flammable.  
**Human health hazards** : Harmful by inhalation and in contact with skin. Harmful: may cause lung damage if swallowed.  
 Irritating to skin.  
**Environmental hazards** : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 4. First aid measures

### First aid measures

- General** : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Give nothing by mouth. If unconscious, place in recovery position and seek medical advice.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use solvents or thinners.
- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open.
- Ingestion** : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do not induce vomiting.

## 5. Fire-fighting measures

- Extinguishing media** : Recommended: alcohol-resistant foam, CO<sub>2</sub>, powders, water spray.  
Not to be used : water jet.
- Recommendations** : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not release runoff from fire to sewers or waterways.
- Hazardous combustion products** : Decomposition products may include the following materials:  
carbon oxides

## 6. Accidental release measures

- Personal precautions** : Exclude sources of ignition and ventilate the area. Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8.
- Spill** : Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Do not allow to enter drains or watercourses. Preferably clean with a detergent. Avoid using solvents. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

**Note:** see section 8 for personal protective equipment and section 13 for waste disposal.

## 7. Handling and storage

- Handling** : Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits.

In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

To dissipate static electricity during transfer, ground drum and connect to receiving container with bonding strap. Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

Keep container tightly closed. Keep away from heat, sparks and flame. No sparking tools should be used.

Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this preparation. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.

Put on appropriate personal protective equipment (see section 8).

Never use pressure to empty. Container is not a pressure vessel. Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws.

## 7. Handling and storage

- Storage** : Store in accordance with local regulations. Observe label precautions. Do not store above the following temperature: 35°C (95°F). Store in a cool, well-ventilated area away from incompatible materials and ignition sources.
- Keep away from: oxidizing agents, strong alkalis, strong acids.  
No smoking. Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.  
Do not empty into drains.

## 8. Exposure controls/personal protection

- Engineering measures** : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn.

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
<b>United Kingdom (UK)</b>	
Xylene (mixture of isomeres)	<b>EH40-WEL (United Kingdom (UK), 1/2005). Skin</b> STEL: 441 mg/m <sup>3</sup> 15 minute(s). Form: All forms STEL: 100 ppm 15 minute(s). Form: All forms TWA: 220 mg/m <sup>3</sup> 8 hour(s). Form: All forms TWA: 50 ppm 8 hour(s). Form: All forms
Naphtha (petroleum), hydrotreated heavy	<b>EH40-WEL (United Kingdom (UK), 6/2005). Notes: as Turpentine</b> STEL: 850 mg/m <sup>3</sup> 15 minute(s). STEL: 150 ppm 15 minute(s). <b>EH40-WEL (United Kingdom (UK), 6/2005). Notes: as Turpentine</b> TWA: 566 mg/m <sup>3</sup> 8 hour(s). TWA: 100 ppm 8 hour(s).
Solvent naphtha (petroleum), light aromatic	<b>EH40-WEL (United Kingdom (UK), 6/2005). Notes: Trimethylbenzene, all isomers</b> TWA: 125 mg/m <sup>3</sup> 8 hour(s). TWA: 25 ppm 8 hour(s).
1,2,4-Trimethylbenzene	<b>EH40-WEL (United Kingdom (UK), 1/2005).</b> TWA: 125 mg/m <sup>3</sup> 8 hour(s). TWA: 25 ppm 8 hour(s).
Mesitylene	<b>EH40-WEL (United Kingdom (UK), 1/2005).</b> TWA: 125 mg/m <sup>3</sup> 8 hour(s). TWA: 25 ppm 8 hour(s).
Isopropylbenzene (cumene)	<b>EH40-WEL (United Kingdom (UK), 1/2005). Skin</b> STEL: 250 mg/m <sup>3</sup> 15 minute(s). Form: All forms STEL: 50 ppm 15 minute(s). Form: All forms TWA: 125 mg/m <sup>3</sup> 8 hour(s). Form: All forms TWA: 25 ppm 8 hour(s). Form: All forms

### Exposure controls

- Occupational exposure controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

- Respiratory protection** : Recommended: organic vapor (Type AX) and particulate filter (EN 140).

- Hand protection** : >8 hours (breakthrough time): gloves, nitrile rubber or polyvinyl alcohol (PVA) (EN 374-1).

- Eye protection** : Recommended: safety glasses with side-shields (EN 166) .

- Skin protection** : Recommended: Overalls buttoned to the neck and wrist.

- Other protection** : When spraying wear suitable respiratory equipment : full-face mask or supplied-air respirator. In confined spaces, use compressed-air or fresh-air respiratory equipment.

- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Environmental exposure controls

## 8. Exposure controls/personal protection

Do not allow to enter drains or watercourses.

## 9. Physical and chemical properties

<b>Physical state</b>	: Liquid. [Clear sparkling liquid.]
<b>Odor</b>	: Solvent-like.
<b>Color</b>	: Clear.
<b>Flash point</b>	: Closed cup: 45°C (113°F) [Setaflash.]
<b>Boiling point</b>	: >140°C (>284°F)
<b>Explosion limits</b>	: Lower: 1% Upper: 8%
<b>Vapor pressure</b>	: 1.8 kPa (13.5 mm Hg)
<b>Vapor density</b>	: >1 [Air = 1]
<b>Evaporation rate (butyl acetate = 1)</b>	: >1 (Butyl acetate. = 1)
<b>Volatility %</b>	: 100% (v/v), 100% (w/w)
<b>VOC content w/w</b>	: 820 (g/l).
<b>Solubility</b>	: Soluble in the following materials: methanol, diethyl ether and acetone. Partially soluble in the following materials: n-octanol. Insoluble in the following materials: cold water and hot water.
<b>Relative density</b>	: 0.82
<b>Viscosity</b>	: Dynamic: <7 mPa·s (<7 cP) Kinematic: <0.06 cm <sup>2</sup> /s (<6 cSt) Kinematic (40°C): <0.07 cm <sup>2</sup> /s (<7 cSt)

## 10. Stability and reactivity

Stable under recommended storage and handling conditions (see section 7).

Hazardous decomposition products: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

## 11. Toxicological information

There is no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See sections 2 and 15 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Solvents may cause some of the above effects by absorption through the skin. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage.

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Xylene (mixture of isomeres)	LD50 Dermal	Rabbit	>1700 mg/kg	-
	LD50 Oral	Rat	4300 mg/kg	-
	LC50 Inhalation Vapor	Rat	5000 ppm	4 hours
Naphtha (petroleum), hydrotreated heavy	LD50 Dermal	Rabbit	>3000 mg/kg	-
	LD50 Oral	Rat	>15000 mg/kg	-
	LC50 Inhalation Vapor	Rat	>5.5 mg/L	4 hours
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Quail	>2150 mg/kg	-
	LD50 Oral	Mouse	8400 mg/kg	-
	LC50 Inhalation Vapor	Rat	29 mg/L	4 hours
1,2,4-Trimethylbenzene	LD50 Oral	Rat	5000 mg/kg	-
	LC50 Inhalation Vapor	Rat	18000 mg/m <sup>3</sup>	4 hours
Mesitylene	LC50 Inhalation Vapor	Rat	24000 mg/m <sup>3</sup>	4 hours
Isopropylbenzene (cumene)	LD50 Dermal	Rabbit	12300 mg/kg	-
	LD50 Oral	Mouse	12750 mg/kg	-
	LD50 Oral	Rat	1400 mg/kg	-

## 11. Toxicological information

LCLo Inhalation      Rat      8000 ppm      4 hours  
Vapor

## 12. Ecological information

There is no data available on the preparation itself.  
Do not allow to enter drains or watercourses.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is classified for eco-toxicological properties accordingly. See sections 2 and 15 for details.

### Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
Xylene (mixture of isomers)	Mortality	Acute LC50 13,4 mg/L	Fish - Fathead minnow (pimephales promelas)	96 hours
	Mortality	Acute LC50 12 mg/L	Fish - Bluegill sunfish (lepomis macrochirus)	96 hours
	Mortality	Acute LC50 8,2 mg/L	Fish - Rainbow trout (oncorhynchus mykiss)	96 hours
Naphtha (petroleum), hydrotreated heavy	-	Acute EC50 >1000 mg/L	Daphnia	4 hours
	-	Acute IC50 >1000 mg/L	Algae	4 hours
	-	Acute LC50 >1000 mg/L	Fish	4 hours
Solvent naphtha (petroleum), light aromatic	-	Acute IC50 1 to 10 mg/L	Algae	72 hours
	-	Acute LC50 18 mg/L	Fish - Trout - Oncorhynchus	96 hours
	-	Acute LC50 21 mg/L	Daphnia	24 hours
1,2,4-Trimethylbenzene	-	Acute EC50 30 mg/L	Daphnia	48 hours
	Mortality	Acute LC50 7,72 mg/L	Fish - Fathead minnow (pimephales promelas)	96 hours
	Population	Acute IC50 53 mg/L	Algae - Scenedesmus subspicatus	48 hours
Mesitylene	Population	Acute IC50 25 mg/L	Algae - Scenedesmus subspicatus	48 hours
	-	Acute LC50 12,52 mg/L	Fish - Goldfish (carassius auratus)	96 hours
	Intoxication	Acute EC50 11,2 mg/L	Daphnia - daphnia	48 hours
Isopropylbenzene (cumene)	Intoxication	Acute EC50 10,6 mg/L	Daphnia	48 hours
	Mortality	Acute LC50 6,32 mg/L	Fish - Fathead minnow (pimephales promelas)	96 hours
	Mortality	Acute LC50 5,1 mg/L	Fish - Guppy (Poecilia reticulata)	96 hours
	Mortality	Acute LC50 2,7 mg/L	Fish - Rainbow trout (oncorhynchus mykiss)	96 hours

### Ecological information

#### Biodegradability

Product/ingredient name	Test	Result	Dose	Inoculum
Xylene (mixture of isomers)	-	90 % - Readily - 5 days	-	-

**Conclusion/Summary** : Rapidly lost by degradation and volatilization.

#### Product/ingredient name

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Xylene (mixture of isomers)	-	-	Readily
Naphtha (petroleum), hydrotreated heavy	< 28 day(s)	-	Readily
Solvent naphtha (petroleum), light aromatic	-	-	Readily
Isopropylbenzene (cumene)	< 28 day(s)	-	Readily

#### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Xylene (mixture of isomers)	3.2	-	high
Naphtha (petroleum), hydrotreated heavy	4.9 to 6.5	-	high
Solvent naphtha (petroleum), light aromatic	3.7 to 4.5	-	high
1,2,4-Trimethylbenzene	3.8	-	high
Isopropylbenzene (cumene)	3.66	-	high

## 13. Disposal considerations

Do not allow to enter drains or watercourses.

Dispose of according to all federal, state and local applicable regulations.

**European waste catalogue (EWC)** : The European Waste Catalogue classification of this product, when disposed of as waste, is: 20 01 13\* solvents. If this product is mixed with other wastes, this code may no longer apply. If mixed with other wastes, the appropriate code should be assigned. For further information, contact your local waste authority.


**Hazardous waste** : Yes.

## 14. Transport information

**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

### International transport regulations

## 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
<b>ADR/RID Class</b>	1263	Painting-related materials. Limited quantity	3	III		<b>Hazard identification number</b> 30  <b>Limited quantity</b> LQ7  <b>CEFIC Tremcard</b> 30G35  <b>Remarks</b> Limited Quantity - ADR/IMDG 3.4.6
<b>IMDG Class</b>	1263	Painting-related materials. Limited quantity	3	III		<b>Emergency schedules (EmS)</b> F-E, S-E  <b>Remarks</b> Limited Quantity - ADR/IMDG 3.4.6
<b>IATA Class</b>	1263	Painting-related materials.	3	III		<b>Passenger and Cargo Aircraft</b> Quantity limitation: 60 L Packaging instructions: 309 <b>Cargo Aircraft Only</b> Quantity limitation: 220 L Packaging instructions: 310 <b>Limited Quantities - Passenger Aircraft</b> Quantity limitation: 10 L Packaging instructions: Y309  <b>Special provisions:</b> A72

PG\* : Packing group

## 15. Regulatory information

### EU regulations

: The product is classified and labelled for supply in accordance with the Directive 1999/45/EC as follows:

### Hazard symbol(s)

:



Harmful

### Risk phrases

: R10- Flammable.  
R20/21- Harmful by inhalation and in contact with skin.  
R65- Harmful: may cause lung damage if swallowed.  
R38- Irritating to skin.  
R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Safety phrases

: S2- Keep out of the reach of children.  
S23- Do not breathe vapor or spray.  
S36/37- Wear suitable protective clothing and gloves.  
S46- If swallowed, seek medical advice immediately and show this container or label.  
S56- Dispose of this material and its container at hazardous or special waste collection point.

### Contains

: Xylene (mixture of isomeres)

### Europe inventory

: **Europe inventory:** All components are listed or exempted.

### Other EU regulations

#### Child protection

: Yes, applicable.

#### Tactile warning of danger

: Yes, applicable.

## 15. Regulatory information

CN code : 3814 00 90

### [National regulations](#)

## 16. Other information

CEPE Classification : 1

Full text of R-phrases referred to in sections 2 and 3 - United Kingdom (UK) :

- R11- Highly flammable.
- R10- Flammable.
- R20- Harmful by inhalation.
- R20/21- Harmful by inhalation and in contact with skin.
- R65- Harmful: may cause lung damage if swallowed.
- R37- Irritating to respiratory system.
- R38- Irritating to skin.
- R36/37/38- Irritating to eyes, respiratory system and skin.
- R66- Repeated exposure may cause skin dryness or cracking.
- R67- Vapors may cause drowsiness and dizziness.
- R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The information in this Safety Data Sheet is required pursuant to EU Directive 91/155/EEC and its amendments.

### [Notice to reader](#)

*The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties. ©Copyright by Rust-Oleum Netherlands B.V. / Martin Mathys B.V.*



<b>Version</b>	1.01	v.3.4.	<i>Page: 7/7</i>
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